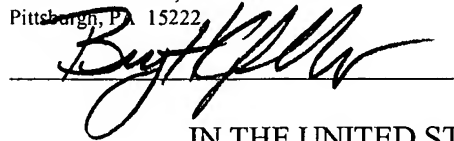


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Pittsburgh, PA 15222



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|------------------------|---|----------------------------|
| In re Application of: | : | PATENT APPLICATION |
| | : | |
| Michael A. Seigler | : | MAGNETIC READ SENSOR WITH |
| | : | STRIPE WIDTH AND STRIPE |
| | : | HEIGHT CONTROL |
| Serial No.: unassigned | : | |
| | : | Group Art Unit: unassigned |
| Filed: herewith | : | Examiner: unassigned |

INFORMATION DISCLOSURE STATEMENT

Pittsburgh, Pennsylvania 15219
December 1, 2003

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Commissioner for Patents
P.O. Box 1450
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Sir:

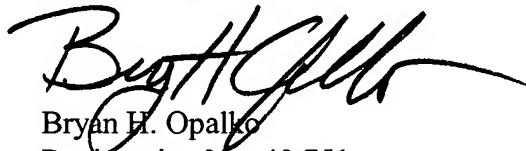
Applicant submits herewith information of which he is aware which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. § 1.56. While this Information Disclosure Statement may be "material" pursuant to 37 C.F.R. § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to herein is "prior art" for the above-identified invention unless specifically designated as such. In accordance with 37 C.F.R. §§ 1.97(g)-(h),

the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists, as defined in 37 C.F.R. § 1.56(a).

Submitted herewith is a copy of each reference, together with a Form PTO-1449 listing the art provided herewith.

This Information Disclosure Statement is being filed within three (3) months from the filing date of the above-identified application and, accordingly, it is believed that no fee is required. *See* 37 C.F.R. § 1.97(b)(1). However, if a fee is required for any reason, please charge Deposit Account No. 02-4553 the necessary amount.


Respectfully submitted,



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Dated: December 1, 2003

Please type a plus sign (+) inside this box 

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
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| | | | | Filing Date | herewith |
| | | | | First Named Inventor | Michael Allen Seigler |
| | | | | Group Art Unit | |
| Examiner Name | | | | | |
| Sheet | 1 | of | 2 | Attorney Docket Number | 030120 |

| U. S. PATENT DOCUMENTS | | | | | | |
|------------------------|--------------------------|----------------------|--------------------------------------|--|--|--|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number | Kind Code ² (if known) | | | |
| | | 6,373,667 | | Han et al. | 04/16/2002 | |
| | | 6,230,389 | | Zhu | 05/15/2001 | |
| | | 6,496,333 | | Han et al. | 12/17/2002 | |
| | | 6,449,131 | | Guo et al. | 09/10/2002 | |
| | | 6,430,015 | | Ju et al. | 08/06/2002 | |
| | | 6,310,751 | | Guo et al. | 10/30/2001 | |
| | | 6,230,690 | | Umetsu | 05/15/2001 | |
| | | 5,783,460 | | Han et al. | 07/21/1998 | |
| | | 5,684,568 | | Ishikawa et al. | 11/04/1997 | |
| | | 5,653,013 | | Gill et al. | 08/05/1997 | |
| | | 5,546,254 | | Gill | 08/13/1996 | |
| | | 5,079,831 | | Reid | 01/14/1992 | |
| | | 6,204,071 | | Ju et al. | 03/20/2001 | |
| | | | | | | |
| | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|--------------------------|-------------------------|---------------------|--------------------------------------|--|--|--|----------------|
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| | | | | Filing Date | herewith |
| | | | | First Named Inventor | Michael A. Seigler |
| | | | | Group Art Unit | |
| | | | | Examiner Name | |
| Sheet | 2 | of | 2 | Attorney Docket Number | 030120 |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | | |
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| | | B. J. VAN WEES, H. VAN HOUTEN, C. W. J. BEENAKKER, J. G. WILLIAMSON, L. P. KOUWENHOVEN, D. VAN DER MAREL and C. T. FOXON Quantized Conductance of Point Contacts in a Two-Dimensional Electron Gas Physical Review Letters, Vol. 60, No 9, February 29, 1988 | | |
| | | Mesoscopic physics Chapter 9 9.1 Conductance quantization in quantum point contacts | | |
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